Double Crossover Diamond (DCD) Interchange

Harrodsburg Road (US 68) at New Circle Road (KY 4)

Lakecrest Circle

Beaumont Centre Pkwy

Widened Exit Ramp

Multi-Use Path

68

4

Alexandria Drive

Dual Left-Turn Lanes onto Alexandria Drive

Restripe Right-Turn Only Lane as Shared Through and Right

Restripe Right-Turn Only Lane as Shared Through and Right

Multi-Use Path

Corporate Drive

Dual Left-Turn Lanes onto Harrodsburg Road

Widened Exit Ramp

Pasadena Drive

0 250 500 Feet

US 68 (Harrodsburg Road) Widening Project

About the Project

US 68 (Harrodsburg Road) is plagued with severe congestion and high accident rates caused by closely-spaced traffic signals, heavy turning movements and weaving operations between intersections. Currently more than 35,000 vehicles travel this section of Harrodsburg Road daily.

The existing roadway currently has two through lanes and single left turn lanes at the New Circle interchange. The project is physically constrained by the existing right-of-way and by the New Circle Road bridge piers. A detailed traffic analysis has been performed for this project to determine the best widening solution possible given the constraints. The original options for widening the roadway were to add an additional through lane in both directions on Harrodsburg Road or add another left turn lane to service the traffic wishing to enter New Circle Road. ENTRAN and KYTC have determined converting the conventional diamond interchange to a double crossover diamond interchange (DCD), sometimes referred to as a diverging diamond interchange (DDI), is the best option to increase capacity and reduce crash rates.

ENTRAN

- The Harrodsburg Road Widening Project is not intended to result in a "permanent" solution as serving future (2030 or beyond) demand is not practical
- With limited funding, what can we do to improve the situation between Corporate Drive and Pasadena Drive?
- Three alternatives have been discussed
  - Additional Left-turn Lanes (eliminated early)
  - Additional Through Lanes (Three Through Lane Alternative)
  - Double Crossover Diamond (DCD) / Diverging Diamond Interchange (DDI)
- The DCD/DDI Alternative combines the best features of the Dual Left and Three Through Lane Alternative
  - It increases through capacity on Harrodsburg Road
  - It better serves left turn movements to and from New Circle Road

I-270 at Dorsett Avenue
St. Louis, MO
Opened October 2010